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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference KRKA2002/175 International application No. PCT/SI 03/00024				FOR FURTHER A	CTION	See Notification	n of Transmittal of Internationalical	onal T/IPEA/416)	
				International filing date (day/month/year) Priority date (day/month/year) 14.07.2003 15.07.2002					
A61	K31/		ent Classification (IPC) or bo	nth national classification of	and IPC	·			
KR		.D., ì	NOVO MESTO et al.						
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.								
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
	These annexes consist of a total of sheets.								
3.	This	repo	rt contains indications re	lating to the following it	ems:				
	l ⊠ Basis of the opinion								
	II		Priority						
	Ш		Non-establishment of o	opinion with regard to n	oveltv. ir	oventive step a	nd industrial applicability	,	
	IV		Lack of unity of invention		,,,,,	are the coop of	wasanar appnoability		
	٧	×	Reasoned statement u citations and explanation	nder Rule 66.2(a)(ii) wi	th regareatement	d to novelty, in	ventive step or industrial	applicability;	
	VI		Certain documents cite	ed					
	VII		Certain defects in the i	nternational application					
	VIII		Certain observations o	n the international appl	ication				
Date	Date of submission of the demand				Date of	completion of th	ls report		
06.0	06.01.2004				22.11.2004				
Nam	Name and mailing address of the international					Authorized Officer			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Wolf, C	C one No. +49 89 2	399-8285		

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International application No.

PCT/SI 03/00024

I. B	asis	of	the	re	port
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1.	the i	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):							
	Des	cription, Pages							
	1-19)	as originally filed						
	Clai	ms, Numbers							
	1-23		as originally filed						
	Dra	Drawings, Figures							
	1-6		as originally filed						
2.	With lang	regard to the language , all the elements marked above were available or furnished to this Authority in the age in which the international application was filed, unless otherwise indicated under this item.							
	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a translation	on furnished for the purposes of the international search (under Rule 23.1(b)).						
		\Box the language of publication of the international application (under Rule 48.3(b)).							
		the language of a translation Rule 55.2 and/or 55.3).	on furnished for the purposes of international preliminary examination (under						
3.	With inte	n regard to any nucleotide rnational preliminary examin	and/or amino acid sequence disclosed in the international application, the nation was carried out on the basis of the sequence listing:						
		contained in the internation	al application in written form.						
		filed together with the international application in computer readable form.							
		furnished subsequently to	this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the infolisting has been furnished.	rmation recorded in computer readable form is identical to the written sequence						
4.	The	The amendments have resulted in the cancellation of:							
		the description, page	S:						

Nos.:

sheets:

the claims,

the drawings,

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

1.23

Inventive step (IS)

Yes: Claims

Claims

Claims

1-17 18-23

Industrial applicability (IA)

Yes: Claims

1-23

No: Claims

2. Citations and explanations

see separate sheet

International application No. PCT/SI 03/00024 :

re item V:

The following documents are cited in the International Search Report:

- D1: WO 01/47933 A (WAIN CHRISTOPHER PAUL ;HAMIED YUSUF KHWAJA (IN); RAO DHARMARAJ RAM) 5 July 2001 (2001-07-05)
- D2: EP-A-0 733 634 (LILLY INDUSTRIES LTD ;LILLY CO ELI (US)) 25 September 1996 (1996-09-25)
- D3: EP-A-0 733 635 (LILLY INDUSTRIES LTD ;LILLY CO ELI (US)) 25 September 1996 (1996-09-25)
- D4: US-A-5 229 382 (CHAKRABARTI JIBAN KUMAR ET AL) 20 July 1993 (1993-07-20).

The processes for preparing olanzapine form I, specific solvates of olanzapine as starting material and the polymorph form (A) of olanzapine and its preparation process as claimed in present claims 1-23 appear to be novel in the light of D1-D4.

Technical problem underlying the present application was the provision of an alternative process for the preparation of form I of olanzapine.

As the Applicant submitted with his last letter the process as claimed is superior over the closest prior art process disclosed in D4 by using a solvent mixture containing 2-propanol. So this process and the new starting material appears to involve an inventive step over the prior art.

However, claims 18-23 which refer to a new polymorph A of olanzapine and the process for the preparation thereof appear to lack an inventive step.

The new polymorph A appears to have the same pharmacological effect as the other known polymorphs and the process for its preparation in claim 22 appears to be a common process (without the essential feature of 2-propanol) and has no referrence back to the process of claim 1 where 2-propanol is involved on which the inventive step assessment of claims 1-17 has been based.

In the regional phase a non-unity objection could be made since claim 1-17 and claims 18-23 appear to correspond to two different technical problems (the essential feature of 2-propanol missing in the process for the preparation of polymorph A).